## **CLAIMS**

What is claimed is:

1. An optical device comprising:

a housing;

at least one optical subassembly substantially disposed within the housing and defining a longitudinal axis; and

a substrate substantially disposed within the housing and residing in a

plane that is substantially perpendicular to the longitudinal axis defined by the at

least one optical subassembly, the substrate including electronic circuitry.

2. The optical device as recited in claim 1, wherein the at least one optical

subassembly comprises at least one of: a transmit optical subassembly and a receive

optical subassembly.

3. The optical device as recited in claim 1, wherein the substrate includes a

connector in electrical communication with at least some of the electronic circuitry of

the substrate.

4. The optical device as recited in claim 3, wherein the substrate is

configured to connect to a host bus adapter.

5. The optical device as recited in claim 1, wherein the at least one optical

subassembly is mechanically and electrically connected to the substrate.

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6. An optoelectronic interface device suitable for use in implementing an

optical connection to a host device, comprising:

a host bus adapter having a printed circuit board with at least one

connector for electrically interfacing with the host device; and

an optical transceiver configured to mechanically and electrically

interface with the host bus adapter and comprising:

a housing;

a transmit optical subassembly and a receive optical

subassembly substantially disposed within the housing, each of which

defines a corresponding longitudinal axis; and

a transceiver substrate substantially disposed within the housing

and residing in a plane that is substantially perpendicular to the

longitudinal axes respectively defined by defined the transmit optical

subassembly and the receive optical subassembly, the transceiver

substrate including electronic circuitry.

7. The optoelectronic interface device as recited in claim 6, wherein the

optoelectronic interface device is configured to be substantially received within a

standard slot of the host device.

8. The optoelectronic interface device as recited in claim 7, wherein the

standard slot comprises one of: a PCI card slot; and a PCMCIA card slot.

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9. The optoelectronic interface device as recited in claim 6, wherein the

host bus adapter comprises a printed circuit board for one of: a peripheral component

interconnect card; and, a PCMCIA card.

10. The optoelectronic interface device as recited in claim 6, further

comprising a face plate defining cutouts and being attached, at least indirectly, to at

least one of: the optical transceiver; and, the host bus adapter.

11. The optoelectronic interface device as recited in claim 10, wherein the

faceplate includes at least one status indicator.

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12. An optical transceiver comprising:

a housing;

a transmit optical subassembly substantially disposed within the housing

and defining a longitudinal axis;

a receive optical subassembly substantially disposed within the housing

and defining a longitudinal axis; and

a transceiver substrate substantially disposed within the housing and

residing in a plane that is substantially perpendicular to the longitudinal axes

respectively defined by the transmit optical subassembly and the receive optical

subassembly, the transceiver substrate including electronic circuitry, and the

transceiver substrate being physically and electrically connected to the transmit

optical subassembly and the receive optical subassembly.

13. The optical transceiver as recited in claim 12, wherein the optical

transceiver is suitable for use in connection with data rates at least as high as about 10

Gbps.

14. The optical transceiver as recited in claim 12, wherein the substrate

includes a connector configured to interface with a host bus adapter.

15. The optical transceiver as recited in claim 12, wherein the substrate

includes a connector configured to interface with one of: a PCI card; and, a PCMCIA

card.

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16. The optical transceiver as recited in claim 12, wherein the transceiver substrate defines front and rear sides, portions of the electronic circuitry being disposed on both the front and rear sides of the transceiver substrate.